

Preparing More, Higher Quality Teachers and School Leaders for NC Public Schools

UNC Teacher Quality Research

Presentation to the House Select Committee on Education Innovation
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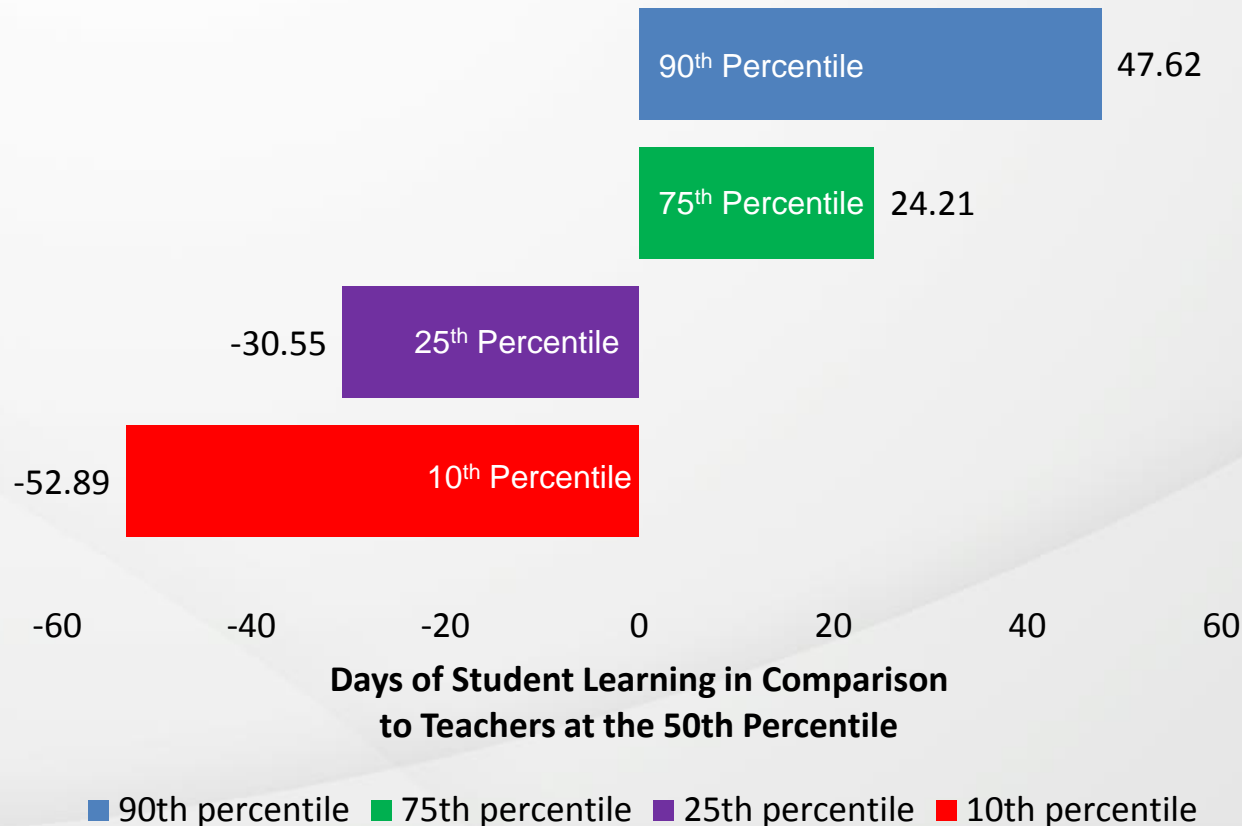
Elizabeth Cunningham

NC New Teacher Support Program

Michael Maher

North Carolina State University, College of Education

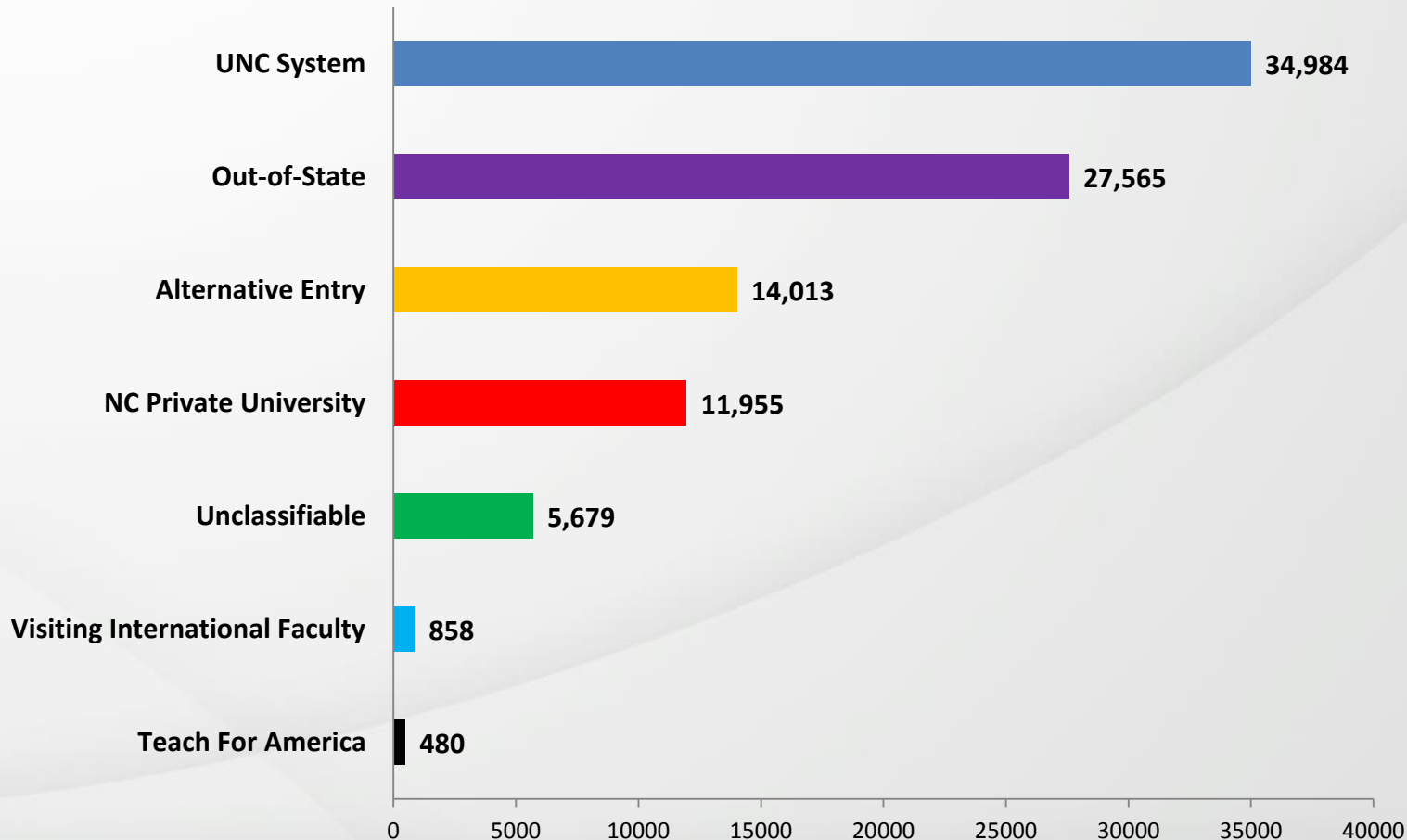
Teacher Effectiveness: Elementary Mathematics



- Teacher effectiveness is the most important resource affecting educational achievement that can be directly influenced by the public schools.
- Students with teachers at the 90th percentile have the equivalent of **100** more days of schooling than students with teachers at the 10th percentile.

North Carolina Teachers by Preparation Category

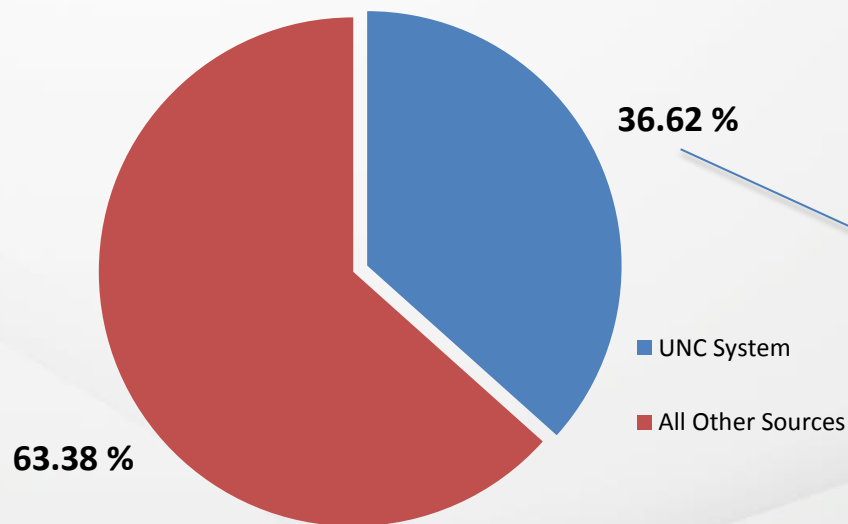
Number of Employed Teachers 2011-12 - 95,543



NC Employed Public School Teachers

Number of Employed Teachers - 95,543

2011-12: NC Public School Teachers by Preparation Category



Characteristics of UNC System Prepared Teachers Employed in NC Public Schools

- 83% Female
- 15% Minority
- Age in 2011 - 38.7
- Teaching Experience - 12 Yrs
- Tested Subject – 30%
- School FRL – 59%
- School Minority – 47%

School Level Percentages:

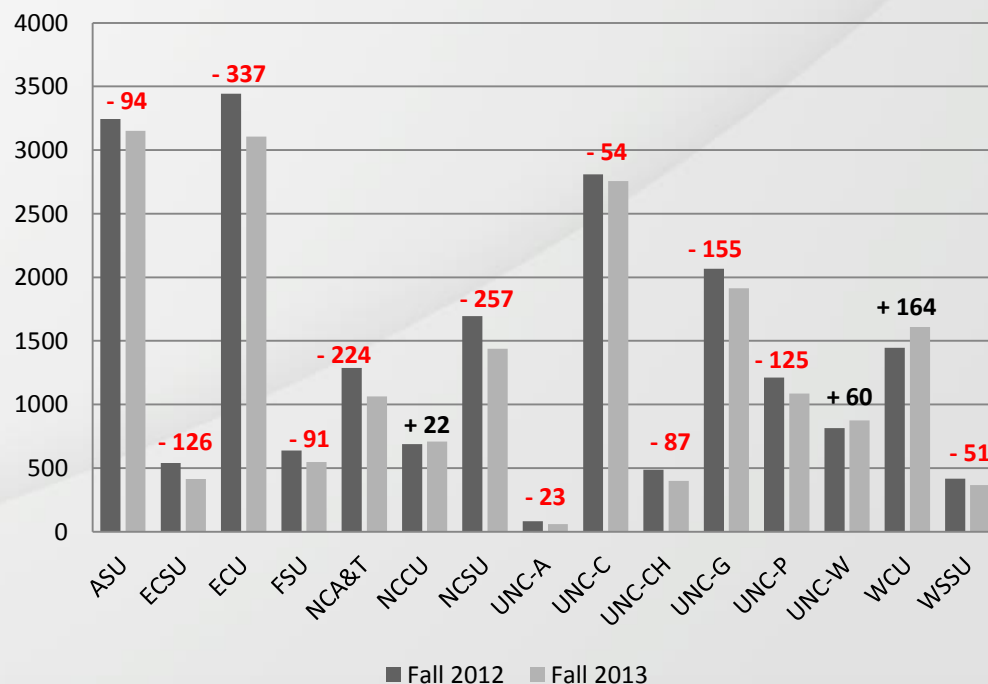
- Elem & Elem/Middle School – 56%
- Middle School – 18%
- High School – 26%

UNC Teacher Preparation Pipeline

UNC Teacher Productivity

- UNC's Fifteen Teacher Education Programs prepare approximately 4,500 teachers each year
- Approximately 65% are prepared through undergraduate traditional preparation programs
- About one third are prepared in high need licensure areas – mathematics, science, middle grades, and special education

Fall 2012 / 2013 Enrollment in Education Programs (Graduate and Undergraduate)



2014 UNC Teacher Portals Analysis

Teacher Portals Analysis: Purpose, Data and Methods

We set out to answer:

- How does the performance of teachers prepared by the UNC System compare to the performance of teachers who enter NC classrooms with other types of preparation, for example, out-of-state, alternative entry, TFA?
- For the report, we analyzed 2.9 million test scores, 1.4 million students, and over 28 thousand teachers with less than 5 years of experience from all school districts in NC
- Value-added effects were estimated using multi-level models with 23 student, 9 classroom/teacher, and 12 school variables

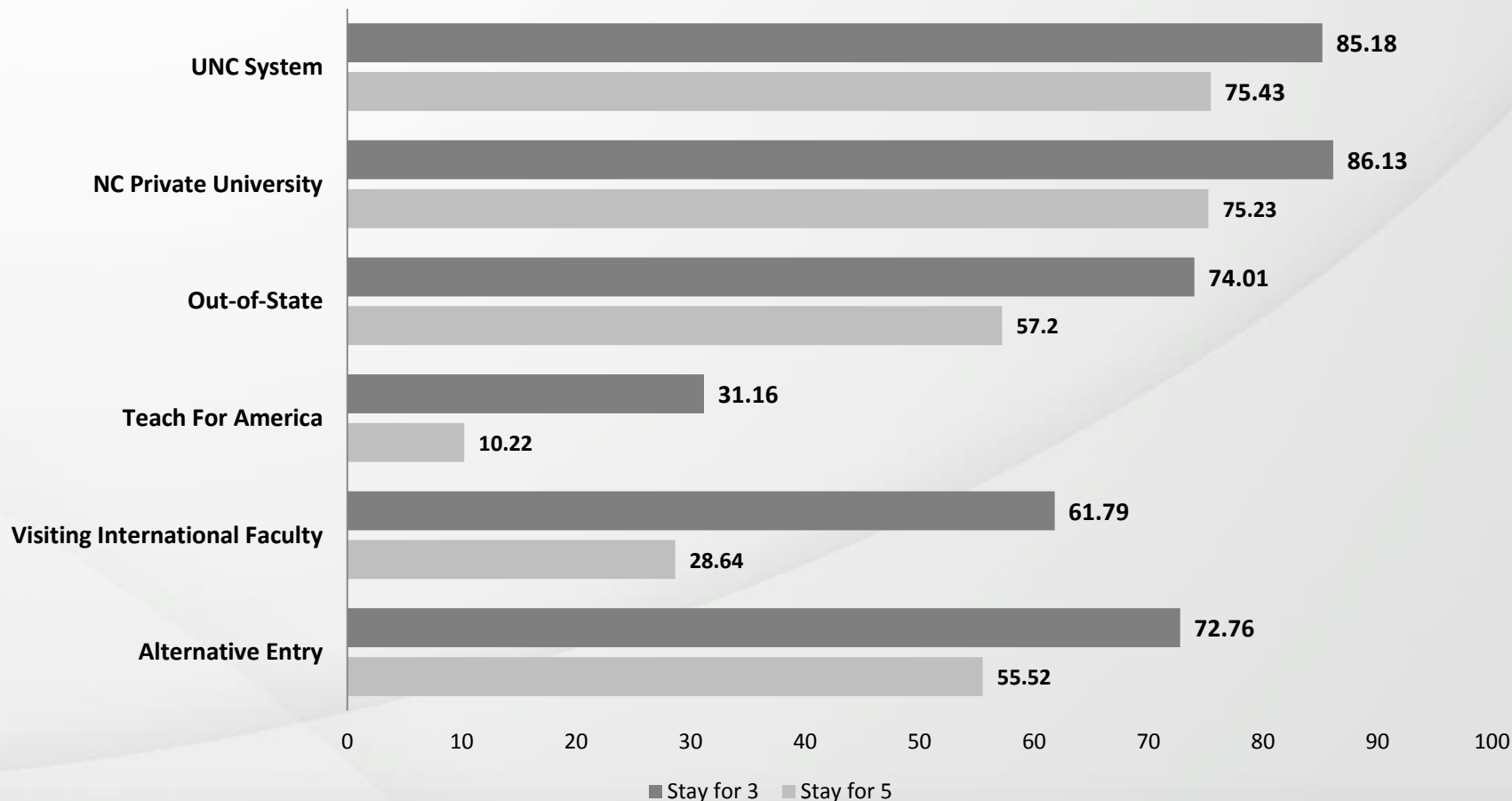
Teacher Portal Impact Summary: Value-Added Findings for Teacher Preparation Categories

Teacher Preparation Category	<u><i>Less Effective</i></u> than UNC System Prepared Teachers	<u><i>More Effective</i></u> than UNC System Prepared Teachers	<u><i>No Different</i></u> than UNC System Prepared Teachers
NC Private University	3	0	8
Out-of-State University	5	0	6
Teach For America	0	9	2
Visiting International Faculty	1	2	6
Alternative Entry	3	0	8

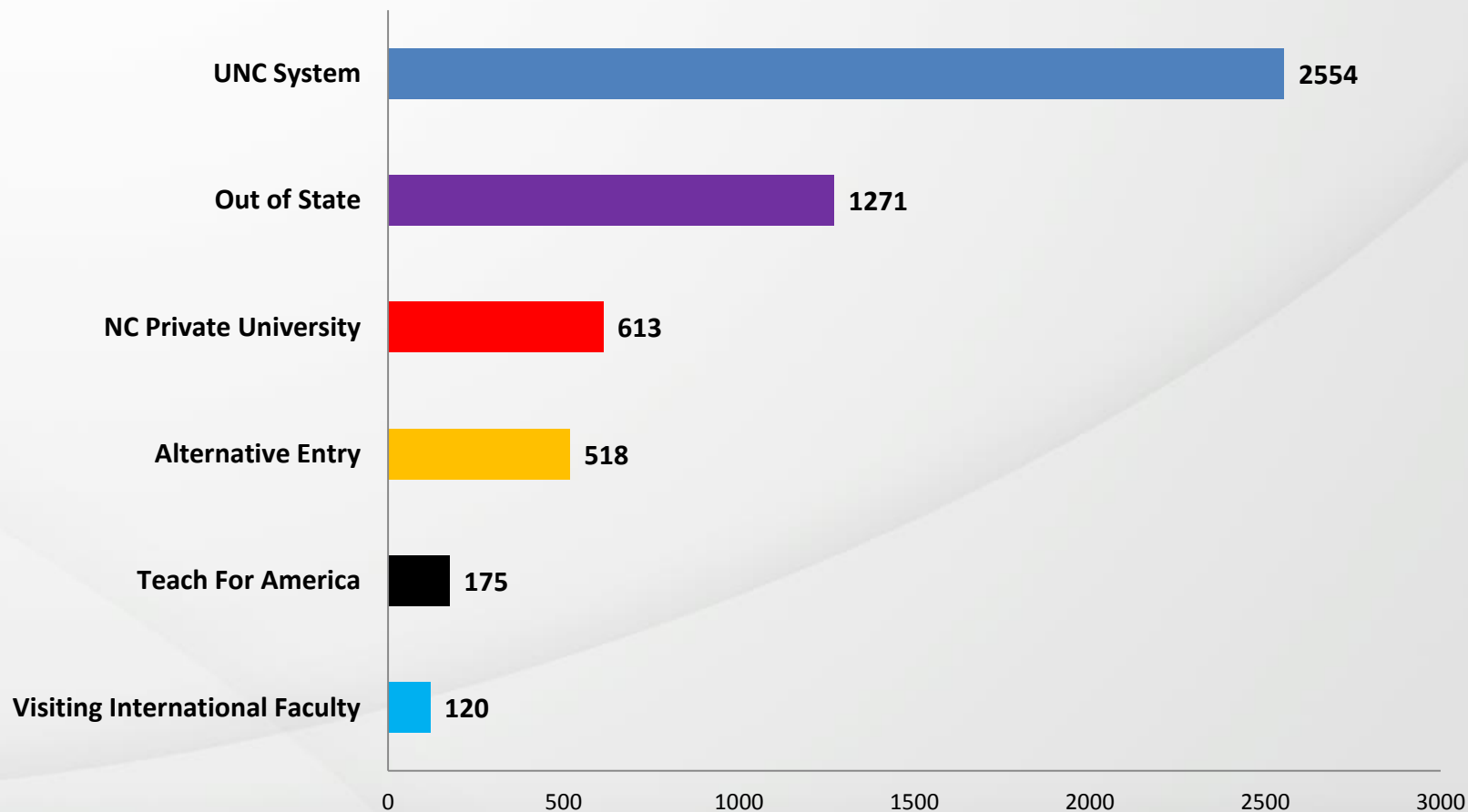
Teacher Portal Summary: Value-Added Findings by Level and Subject

Level/Subject		Teacher Categories <u>Less</u> Effective than UNC System Prepared Teachers	Teacher Categories <u>More</u> Effective than UNC System Prepared Teachers
Elementary	Elementary Math	Out-of-State	TFA, VIF
	Elementary Reading	---	VIF
	Elementary Science	NC Private, Out-of-State	TFA
Middle	Middle Math	NC Private	TFA
	Middle Reading	---	TFA
	Middle Science	NC Private	TFA
	Middle Algebra 1	---	TFA
High	High School English	---	---
	High School Social Studies	Out-of-State, Alt Entry	TFA
	High School Math	Out-of-State, VIF, Alt Entry	TFA
	High School Science	Out-of-State, Alt Entry	TFA

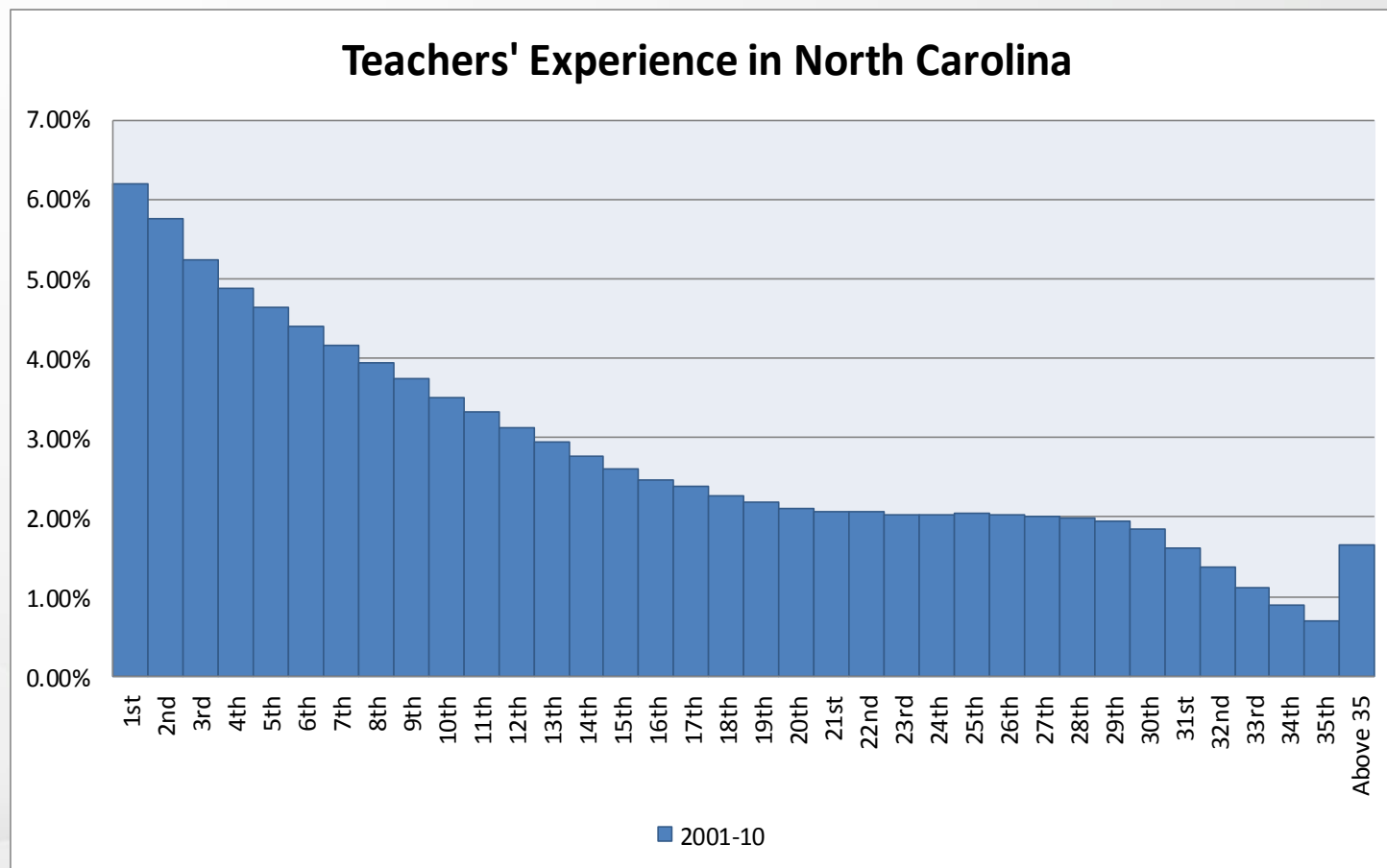
Beginning Teacher Persistence in NC Public Schools



2011-12: First Year NC Public School Teachers by Portal



More teachers in NC are in their first year than any other year of experience.



Support for Beginning Teachers

NC New Teacher Support Program

NC New Teacher Support Program

- Essential Components of the Program
 - For beginning teachers with no prior teaching experience
 - Provides support in first 3 years of service
 - Institute (based on TFA model and 5 days in length)
 - Instructional Coaching (classroom-based)
 - Customized Professional Development
 - Use of CLASS observational instrument
 - Offered to 5% lowest performing schools (NC RttT grant)
- Yr 1 served 35; Yr 2 served 450; **Yr 3 serving 1,150**



1,150 teachers, 120 schools, 29 school districts

- **Institute addresses:**
 - Success in the School and Community
 - Effective Instruction, Planning, and Assessment
 - Classroom Culture and Community
- **Individualized instructional coaching provides:**
 - High quality feedback targeted to improve teachers' growth as professionals and individuals
 - Use of aligned, non-evaluative observation tool used to set goals, improve instructional skills
- **Aligned professional development offers:**
 - Six days targeted to meet needs identified by teachers, coaches, and school leaders
 - Research-based curriculum focused on needs and development of beginning teachers

NC New Teacher Support Program Results

- 82% of Winter Institute attendees and 68% of Summer **Institute** attendees agreed or strongly agreed the Institute helped develop their confidence, knowledge, and skills.
- 77% of NC NTSP teachers *agreed or strongly agreed* their **instructional coach** helped develop their confidence, knowledge, and skills in teaching, compared to statistically lower rates for other supports provided.
- 85% of teachers *agreed or strongly agreed* NC NTSP **professional development** helped them develop confidence, knowledge, and skills, compared to statistically lower rates for other support provided.

NC New Teacher Support Program Results

- **Classroom observations** indicated that NC NTSP teachers had higher levels of instructional proficiency than a comparison sample.
- 86 percent of NC NTSP teachers **returned to teaching**; 83.5 percent **returned to teaching in North Carolina**.

Taking Action to Improve Teacher Preparation

Why Focus on Student Teaching?

- This is where prospective teachers show what they can and cannot do in real classrooms
- Make objective assessments of candidates' performance
- Use assessment results to improve UNC Teacher Preparation Programs:
 - Where do we teach the things they cannot do well?
 - How can we improve those courses and experiences?

Addressing Teacher Performance through a Two-Part Strategy

Part I: Identify instrument to assess how well student teachers can perform basic teaching functions

- Plan solid lessons
- Carry the lessons out in real classrooms
- Assess what their students have learned
- Use assessment results to help struggling students and to improve their own instruction

Part II: Help UNC teacher educators learn how to use the instrument

- Help student teachers improve their practice
- Improve their own teacher preparation programs

Teacher Performance Assessment Pilot (edTPA)

- Identify valid/reliable instrument to assess how well student teachers can perform basic teaching functions
- Help teacher educators learn how to use the instrument
- Selected the “edTPA” developed at Stanford University
 - “TPA” = Teacher Performance Assessment
 - “ed” = educative, not just to assess but also to educate student teachers and improve preparation programs
- Pilot-tested in 25 states, including North Carolina

Why Pilot the edTPA in North Carolina

- Ensure the edTPA is really usable and helpful in UNC teacher preparation programs
- Ensure the edTPA results really predict teacher effectiveness in the classroom
- “Effectiveness” = Do teachers with high scores from the edTPA instrument produce high levels of student learning in the classroom?
- Seven UNC Campuses are Participating in the Pilot
 - ECU, UNC-CH, WSSU, NCSU, UNCA, UNCC and WCU

Transforming Research into Action

- UNC is taking ownership and responsibility for “evidence based” program improvements
 - Improve existing UNC teacher preparation programs
 - Develop, pilot and evaluate innovations in UNC preparation programs
 - Increase UNC productivity of new teachers to off-set dependency on lesser performing portals
 - Improve recruitment and selection into UNC teacher preparation programs
- Identifying gaps in lower performing portals that could be addressed through strategies with UNC preparation programs
- Coordinating with our K12 partners to develop, pilot, and evaluate innovations